

Serial No. Not Yet Assigned

Atty. Doc. No. 2003P14866WOUS

Amendments To The Claims:

Please amend the claims as shown.

1 – 11 (cancelled)

12. (new) A method for performing data transmission via a subscriber's connection located in a communication network which is in accordance with Ethernet transmission method, comprising:

having a connection data that represents the subscriber's connection;

transmitting the connection data and data to be transmitted via the subscriber's connection in accordance with PPPoE transmission method and in accordance with RFC 2516;

inserting the connection data as "Relay Session ID TAG" into PPPoE Active Discovery messages;

transmitting the PPPoE Active Discovery messages to the communication network via the subscriber's connection; and

authenticating the data to be transmitted by using the connection data which is contained in the PPPoE Active Discovery messages.

13. (new) The method as claimed in claim 12, wherein the connection data is a port identification or PORT-ID and represents a subscriber connecting line that is connected to the subscriber's connection.

14. (new) The method as claimed in claim 12, wherein the connection data is stored in the communication network.

15. (new) The method as claimed in claim 12, wherein the data to be transmitted is transmitted within a framework of a communication link via the subscriber's connection and the connection data is transmitted to the communication network on an establishment of the communication link.

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16. (new) The method as claimed in claim 12,
wherein the subscriber's connection is allocated to a switching device located in the communication network,
wherein the connection data is inserted as "Relay Session ID TAG" into the PPPoE Active Discovery messages through the switching device,
wherein the PPPoE Active Discovery messages which contains the connection data is transmitted to an access network element located in the communication network,
wherein the specific TAG value of the Relay Session ID TAG which represents the connection data contained in the messages is extracted in the access network element,
wherein the extracted connection data is transmitted from the access network element to an authentication network element located in the communication network, and
wherein the data to be transmitted is verified by the authentication network element by using the connection data.

17. (new) The method as claimed in claim 12, wherein the subscriber is connected to the communication network via the subscriber's connection and authentication is verified by using the connection data and by using subscriber data which represents the subscriber.

18. (new) The method as claimed in claim 17, wherein the subscriber data includes a user name and a password.

19. (new) A communication system for performing data transmission via a subscriber's connection located in a communication network which is in accordance with Ethernet transmission method, comprising:

a connection data that represents a subscriber's connecting line that is connected to the subscriber's connection;

a transmitter that transmits the connection data to the communication network; and

an authenticator located in the communication network that verifies authenticity of data to be transmitted via the subscriber's connecting line by using the connection data.

20. (new) The communication system as claimed in claim 19, wherein the subscriber's connecting line is a wire connecting line through which the subscriber is physically connected to the communication network.

21. (new) The communication system as claimed in claim 19, wherein the connection data and the data to be transmitted in the communication network via the subscriber's connection is transmitted in accordance with PPPoE transmission method and in accordance with RFC 2516.

22. (new) The communication system as claimed in claim 19, wherein the connection data is inserted as the "Relay Session ID TAG" into PPPoE Active Discovery messages via the transmitter and is transmitted via the subscriber's connection to the communication network.

23. (new) The communication system as claimed in claim 19, wherein the connection data is a port identification or PORT-ID.

24. (new) The communication system as claimed in claim 19, wherein the subscriber's connection and the transmitter are allocated to a switching device located in the communication network.

25. (new) A communication device for a communication system for performing data transmission via a subscriber's connection located in a communication network which is in accordance with Ethernet transmission method, comprising:

a connection data that represents a subscriber's connecting line that is connected to the subscriber's connection;

a transmitter that is allocated to the communication device and transmits the connection data to the communication network; and

an authenticator located in the communication network that verifies authenticity of data to be transmitted via the subscriber's connecting line by using the connection data,

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wherein the connection data and the data to be transmitted in the communication network via the subscriber's connection is transmitted in accordance with PPPoE transmission method and in accordance with RFC 2516,

wherein the connection data is inserted as the "Relay Session ID TAG" into PPPoE Active Discovery messages via the transmitter and is transmitted via the subscriber's connection to the communication network.

26. (new) The communication device as claimed in claim 25, wherein the subscriber's connecting line is a wire connecting line through which the subscriber is physically connected to the communication network.